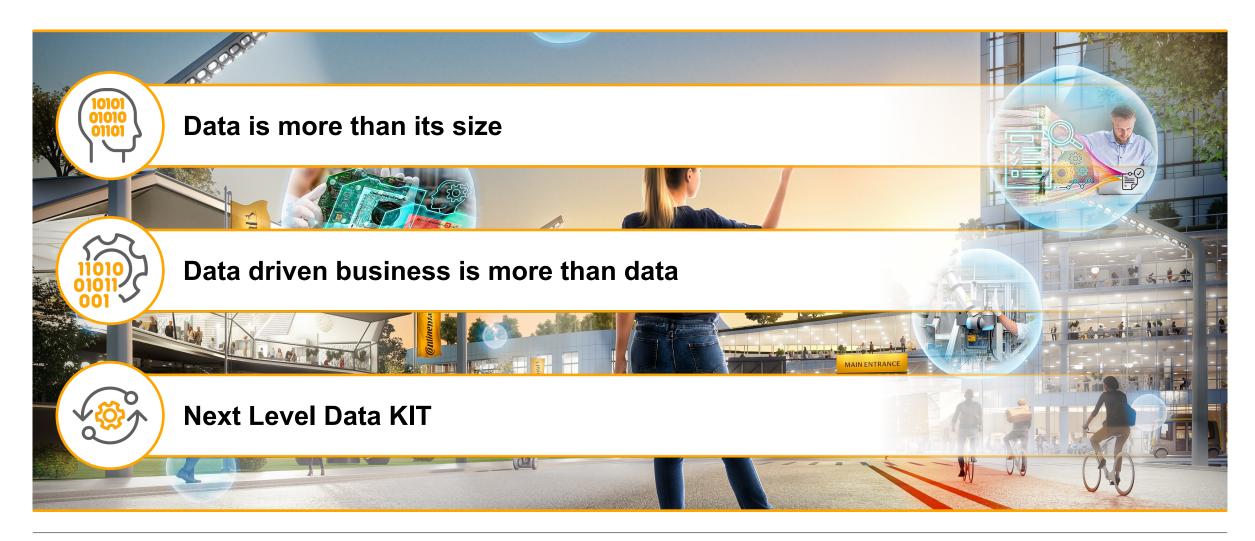


Data! – Why?

Dr. Stefan Voget | December 05, 2023

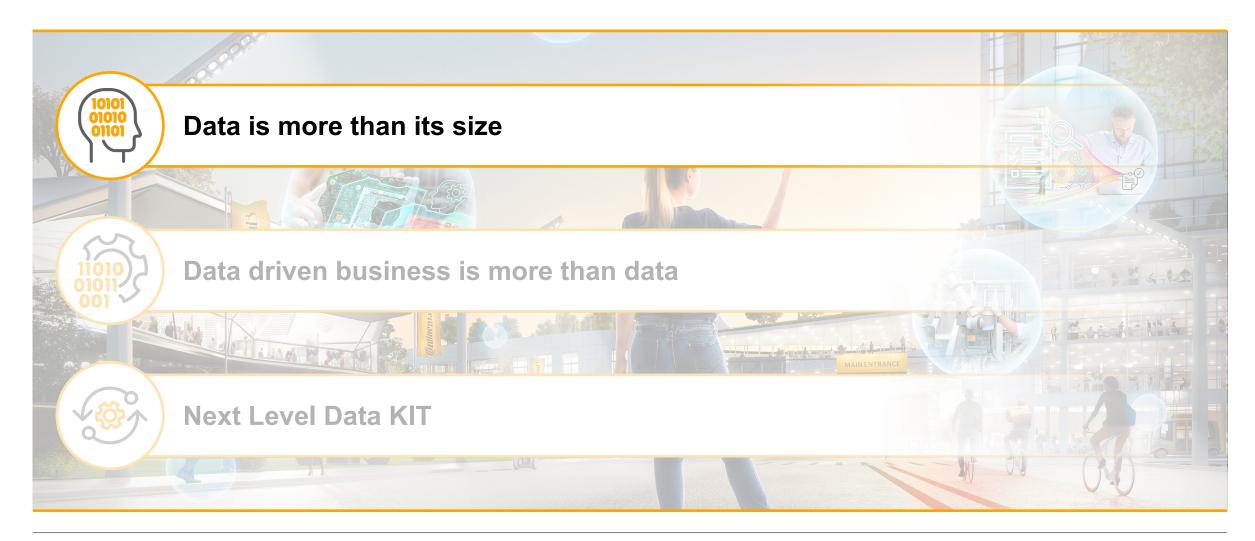
www.continental-automotive.com Continental AG

Content



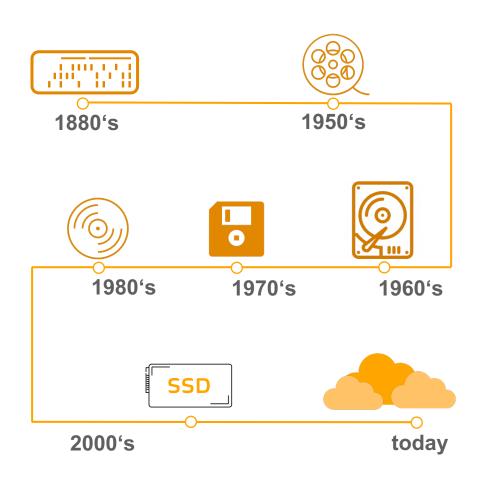
Data for Al

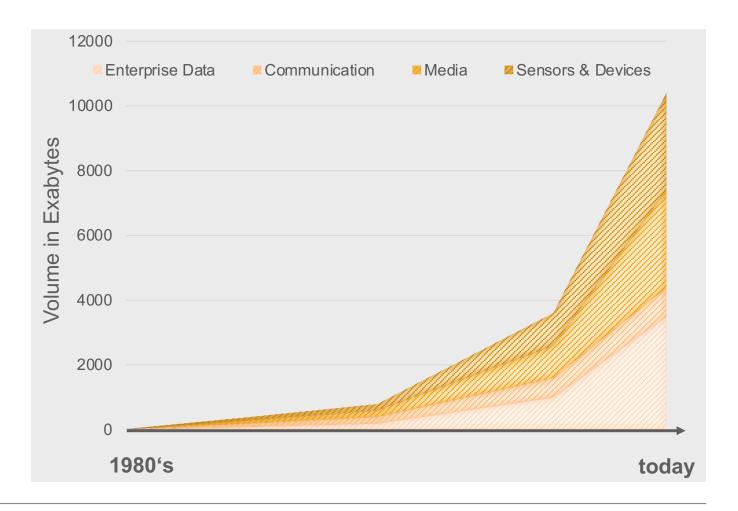
Content



Data is more than its size

From punch card to big data





Data is more than its size

From boolean to complex data structures



Simple boolean data for on/off signals



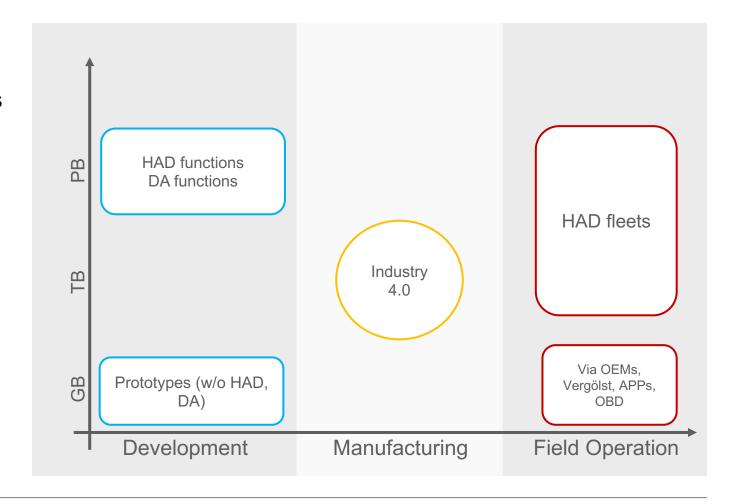
Relational data structures



Object oriented data structures



Graph-based data structures

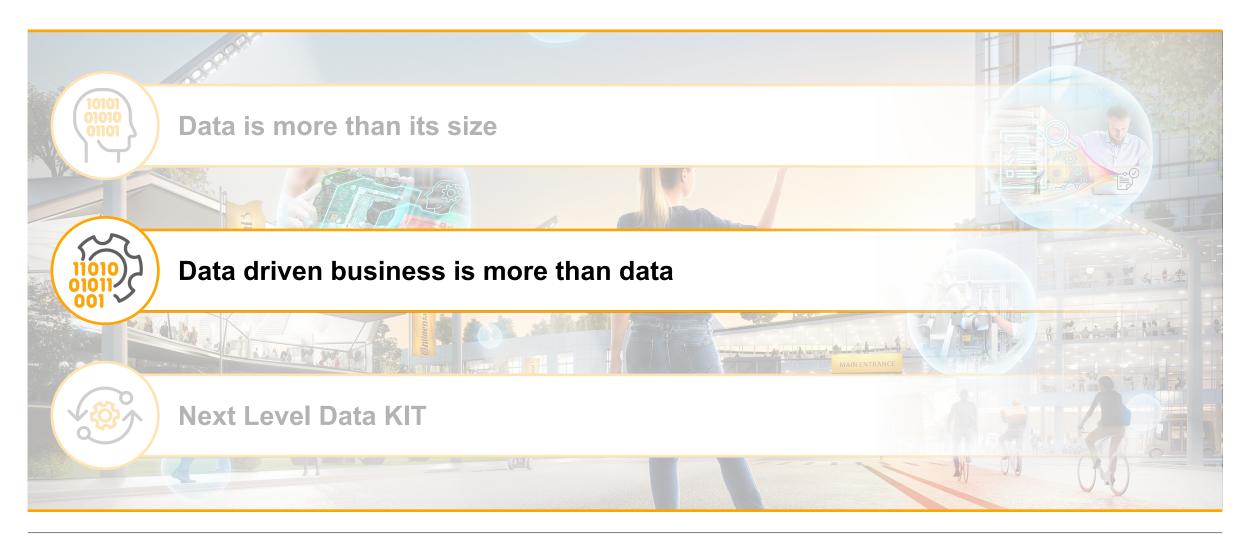


Data is more than its size

Everybody wants a piece of it!



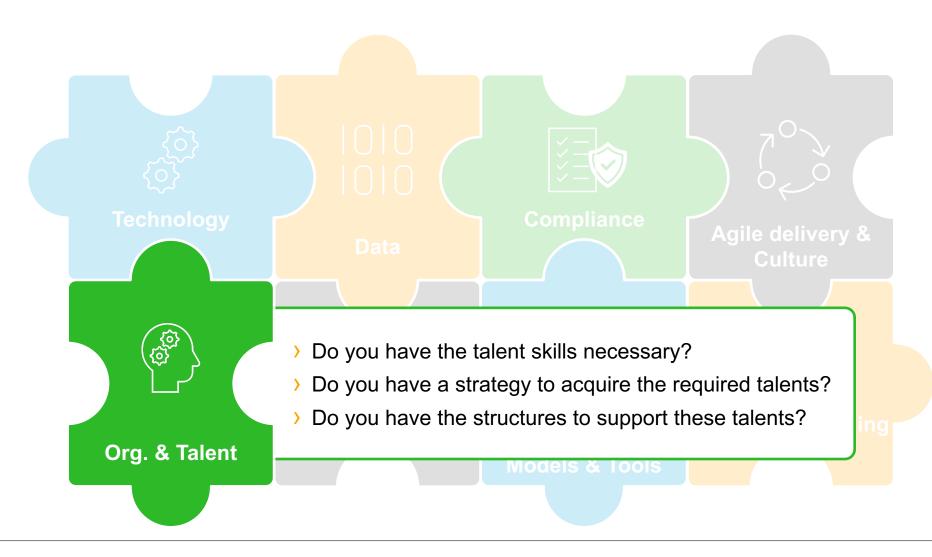
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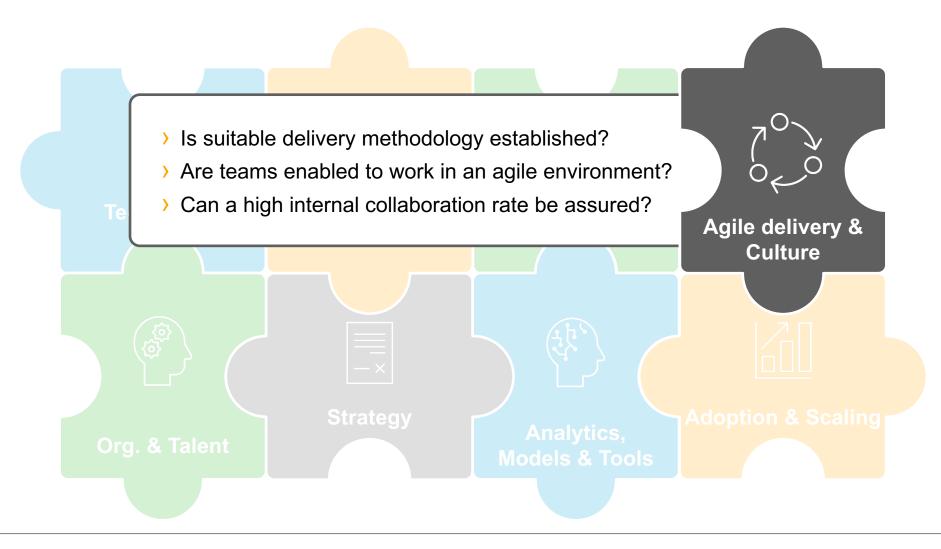




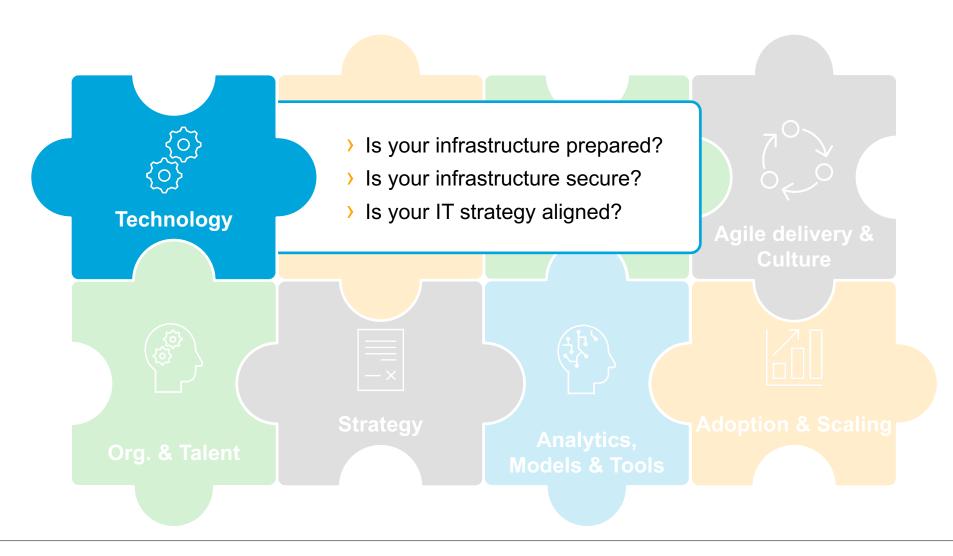




...but that doesn't make a cake

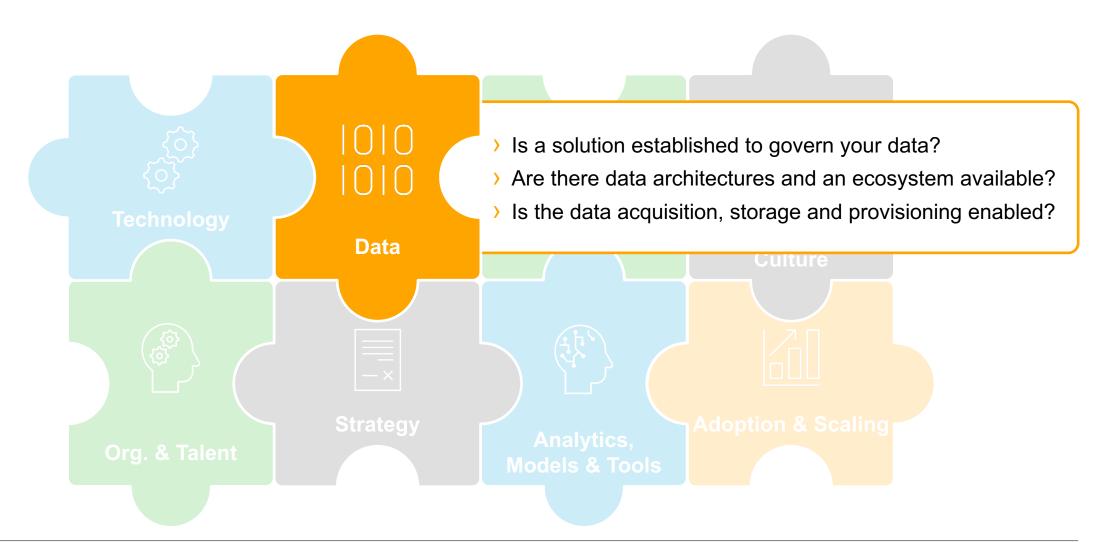


...but that doesn't make a cake

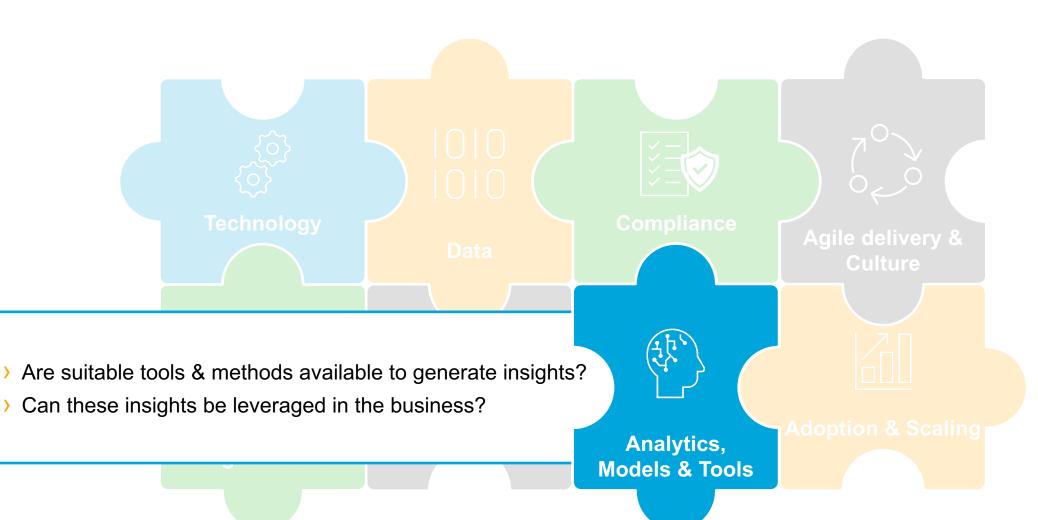




...but that doesn't make a cake

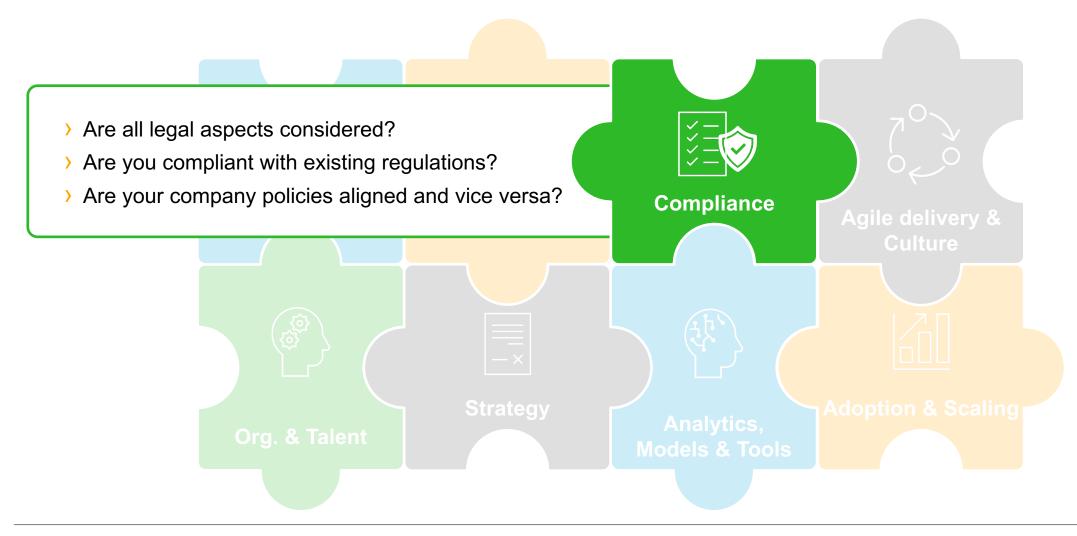


...but that doesn't make a cake



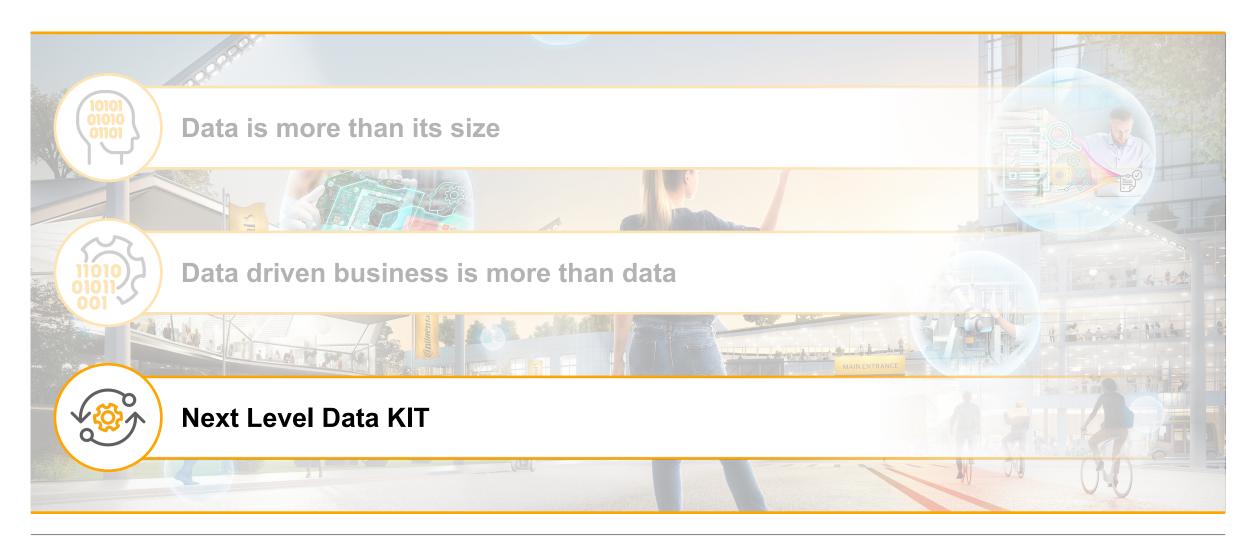
...but that doesn't make a cake



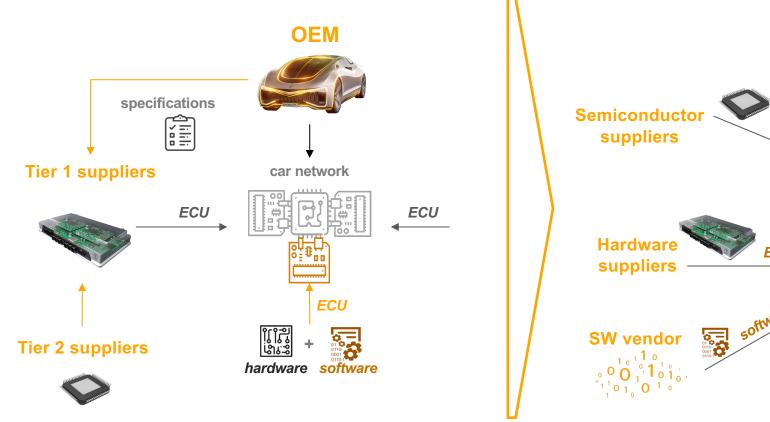




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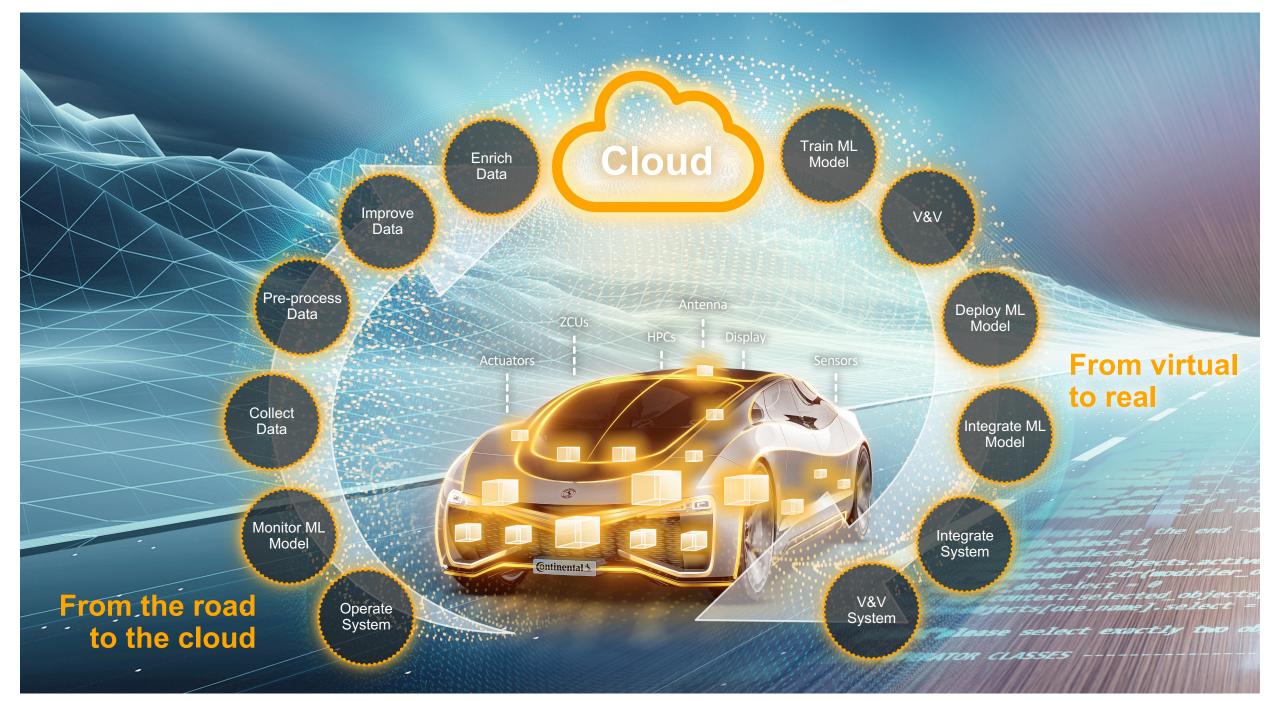
Traditional Collaboration Workflows become outdated



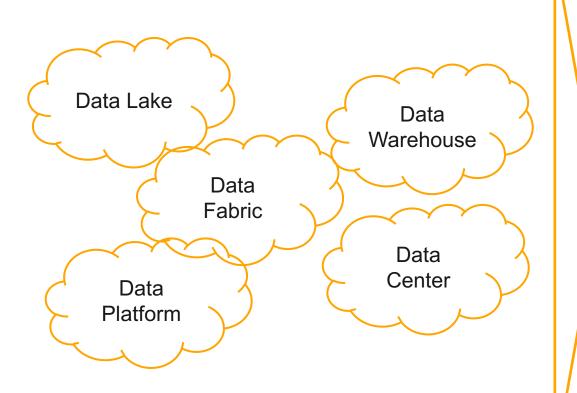
Integrator car network function X **ECU** 3rd party supplier

"Traditional Development"

"Collaborative, decentralized Development"



Traditional Collaboration Workflows become outdated



Data Mesh

"Our aspiration to augment and improve every aspect of business and life with data, demands a paradigm shift in how we manage data at scale."*)

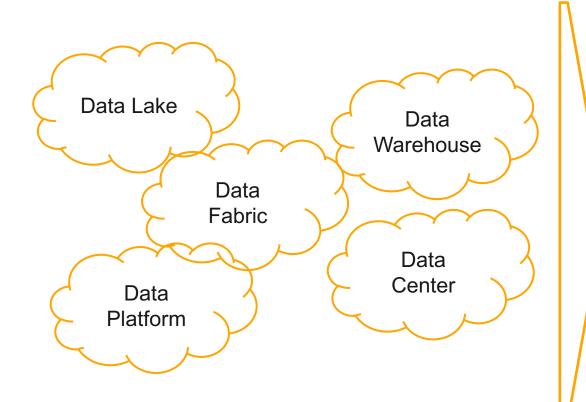
Domain Ownership Decentralized Responsibility	Data as a Product Product Thinking for Data	Self-service Data Platform	Federated Governance
Decentralization and distribution of responsibility to people who are closest to the data	Fulfilment of defined quality criteria of data like: Topicality Access Completeness Automated tests	Self-service for Storage Discoverability Access control In Product Search Monitoring	Company-wide requirements for Processing Provision Legality Security of data products

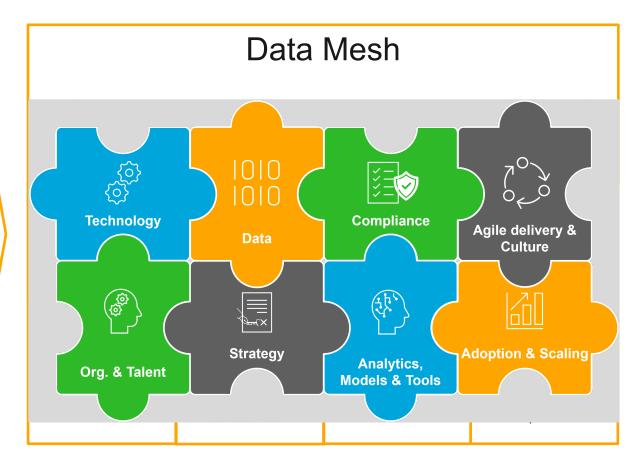
"Traditional Development"

"Collaborative, decentralized Development"

*) Zhamak Dehgahani: Data Mesh Principles and Logical Architecture

Traditional Collaboration Workflows become outdated





"Traditional Development"

"Collaborative, decentralized Development"

*) Zhamak Dehgahani: Data Mesh Principles and Logical Architecture



Key Take-Aways



